

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041118\
 Data File : VX000776.D
 Acq On : 11 Apr 2018 14:14
 Operator : JC/MD
 Sample : J2280-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 11 14:44:49 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	315681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	436295	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	408472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	242727	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	159031	39.95	ug/l	0.00
Spiked Amount						
			Recovery	=	79.90%	
35) Dibromofluoromethane	5.51	113	134267	39.94	ug/l	0.00
Spiked Amount						
			Recovery	=	79.88%	
50) Toluene-d8	8.72	98	503720	40.25	ug/l	0.00
Spiked Amount						
			Recovery	=	80.50%	
62) 4-Bromofluorobenzene	11.14	95	202542	39.11	ug/l	0.00
Spiked Amount						
			Recovery	=	78.22%	

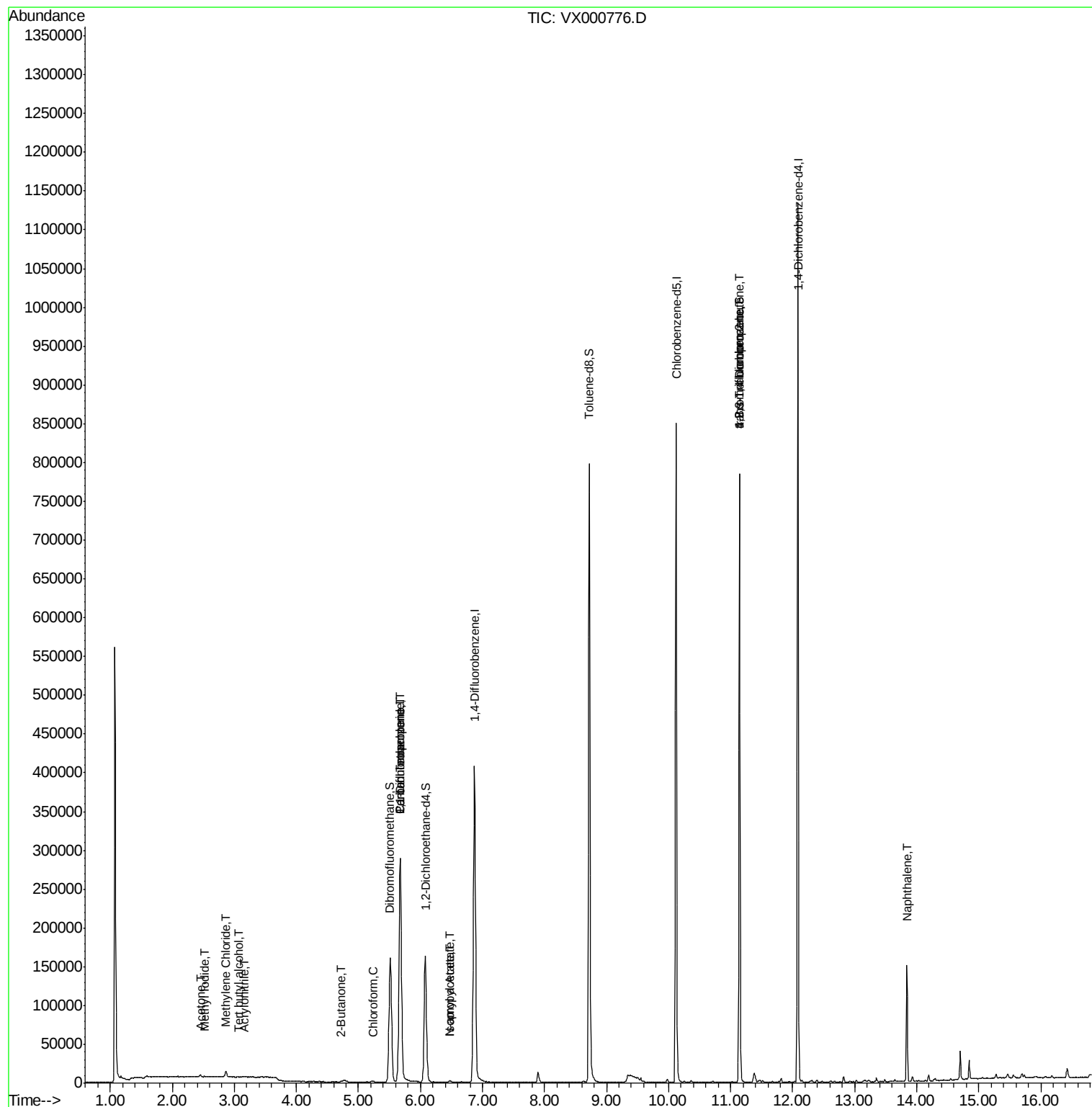
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	270	Below Cal	#	1
10) Methyl Iodide	2.51	142	334	8.35	ug/l #	73
11) Tert butyl alcohol	3.07	59	343	0.49	ug/l #	92
15) Acrylonitrile	3.15	53	331	0.22	ug/l	88
16) Acetone	2.45	43	4198	3.06	ug/l #	88
20) Methylene Chloride	2.87	84	3822	1.20	ug/l #	91
25) 2-Butanone	4.71	43	717	0.32	ug/l	96
30) Chloroform	5.23	83	1601	0.27	ug/l	95
36) 1,1-Dichloropropene	5.67	75	18783	3.91	ug/l #	50
38) Carbon Tetrachloride	5.68	117	25979	4.83	ug/l #	15
43) Isopropyl Acetate	6.48	43	2672	0.33	ug/l	96
74) N-amyl acetate	6.48	43	2669	0.38	ug/l #	95
76) 1,2,3-Trichloropropane	11.14	75	100800	24.08	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	100800	66.24	ug/l #	11
95) Naphthalene	13.84	128	89918	5.09	ug/l	100

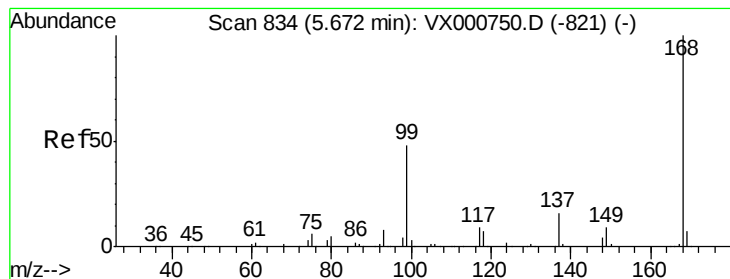
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

Instrument :

MSVOA_X

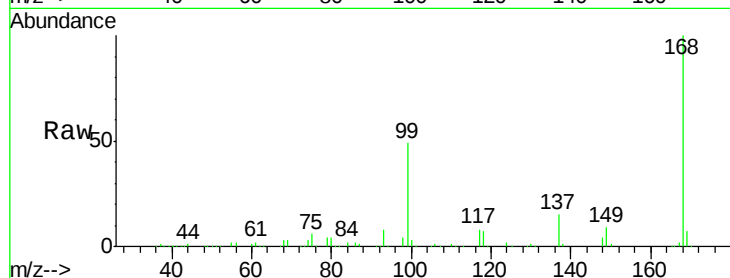
ClientSampleId :

Tot Ion:168 Resp: 315681

Ion Ratio Lower Upper

168 100

99 48.7 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

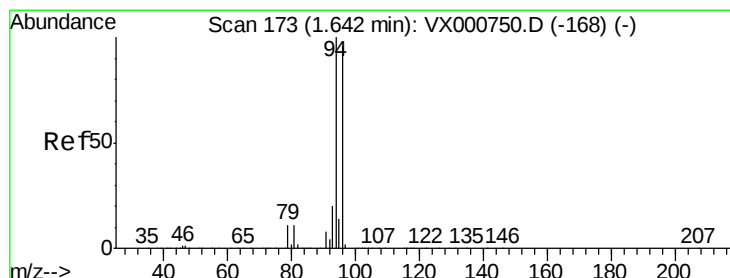
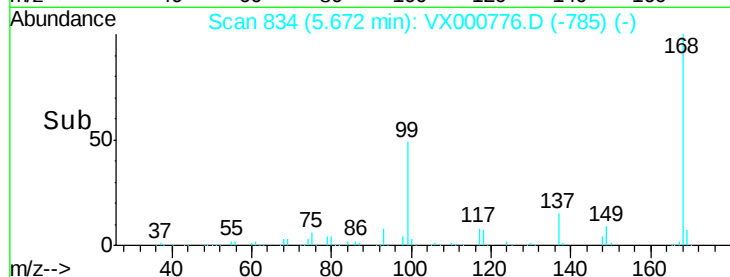
40000

20000

0

Time-->

5.60 5.80 6.00



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000776.D

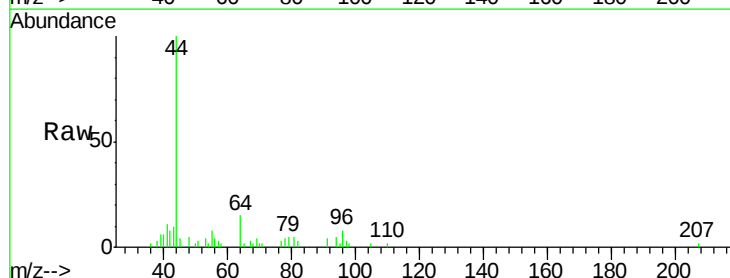
Acq: 11 Apr 2018 14:14

Tgt Ion: 94 Resp: 270

Ion Ratio Lower Upper

94 100

96 244.7 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

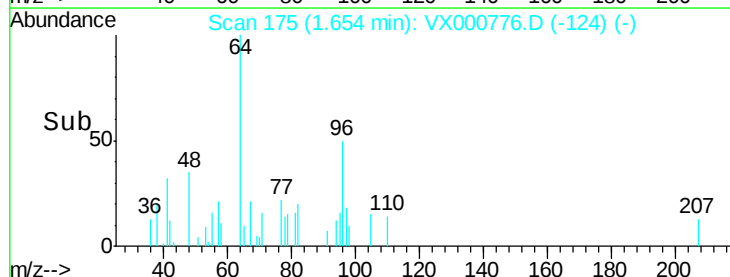
100

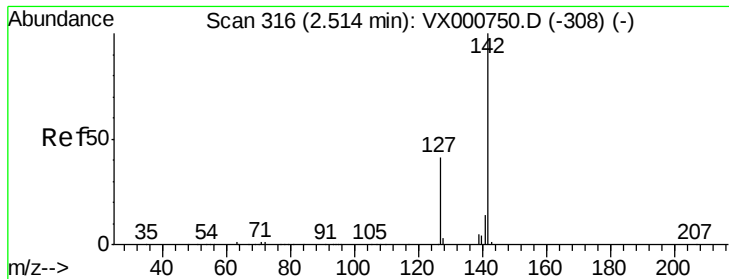
50

0

Time-->

1.62 1.64 1.66 1.68

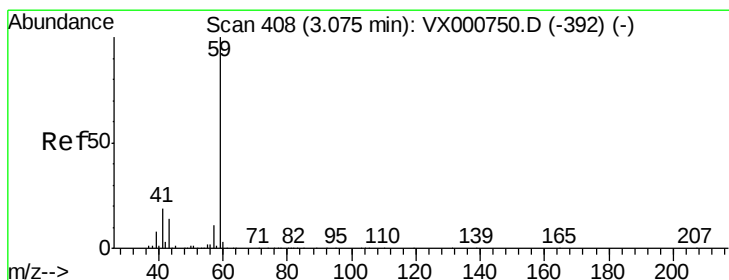
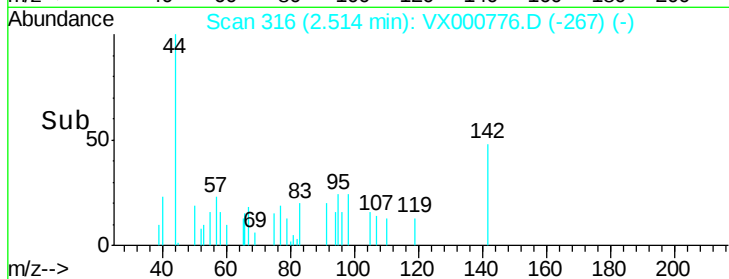
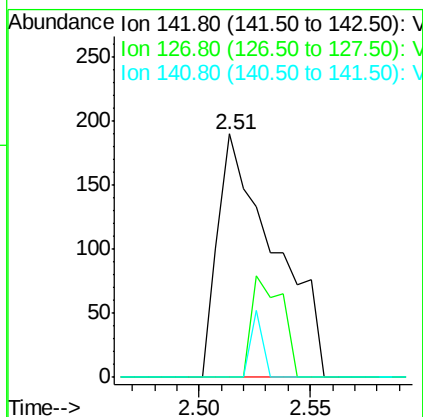
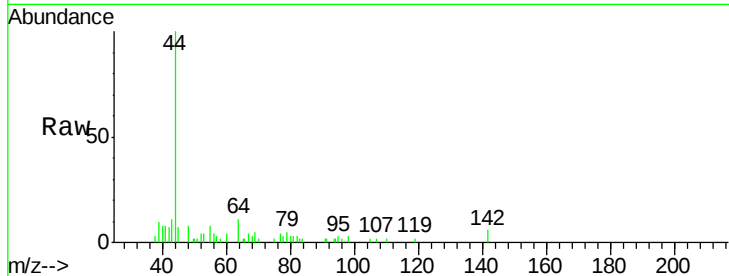




#10
Methyl Iodide
Concen: 8.35 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

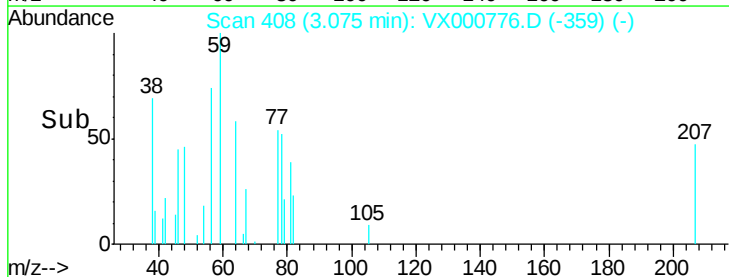
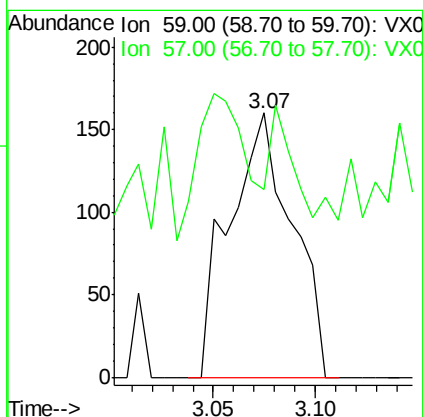
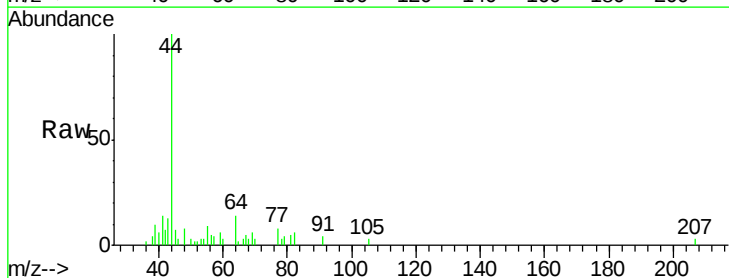
Instrument :
MSVOA_X
ClientSampled :

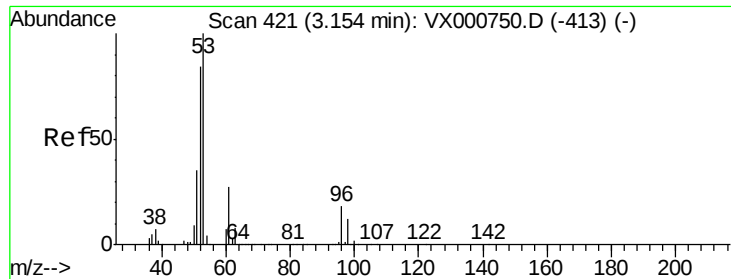
Tot Ion:142 Resp: 334
Ion Ratio Lower Upper
142 100
127 22.5 32.6 49.0#
141 5.7 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.49 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.00 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

Tgt Ion: 59 Resp: 343
Ion Ratio Lower Upper
59 100
57 13.4 8.4 12.6#





#15

Acrylonitrile

Concen: 0.22 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

Instrument :

MSVOA_X

ClientSampled :

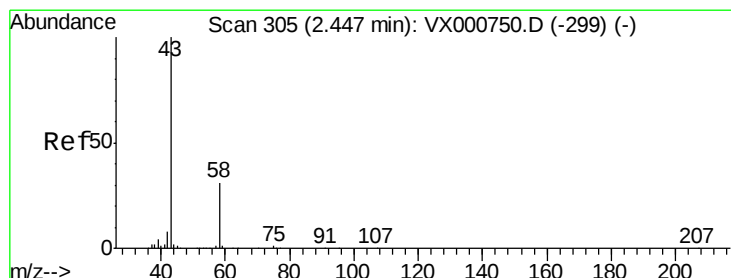
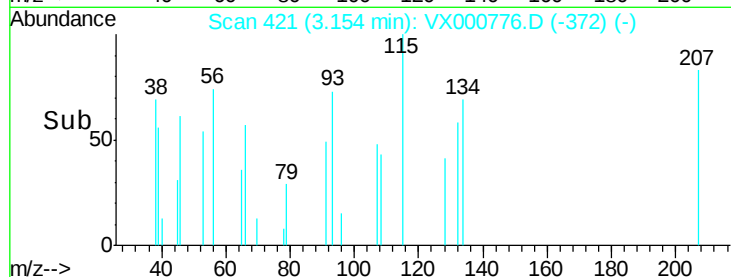
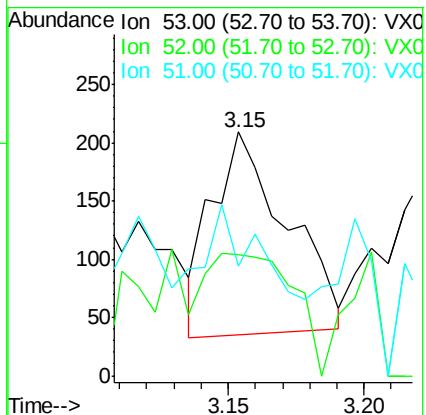
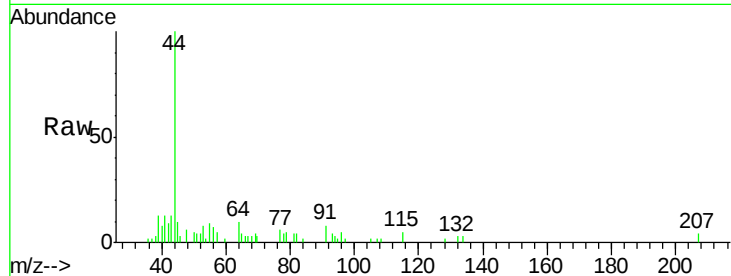
Tot Ion: 53 Resp: 331

Ion Ratio Lower Upper

53 100

52 71.6 66.5 99.7

51 29.6 28.8 43.2



#16

Acetone

Concen: 3.06 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000776.D

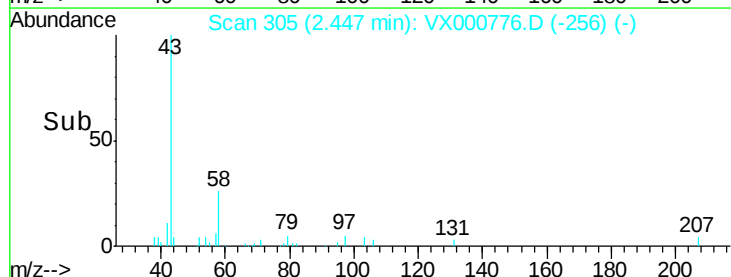
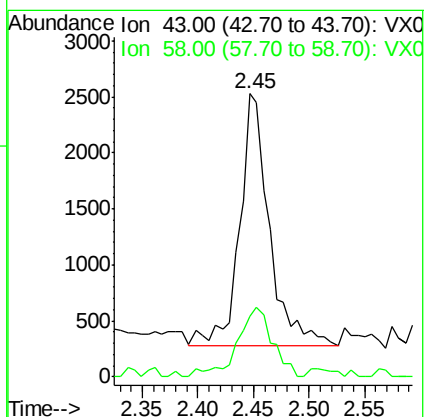
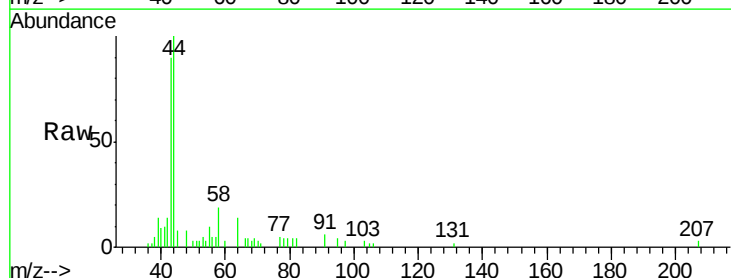
Acq: 11 Apr 2018 14:14

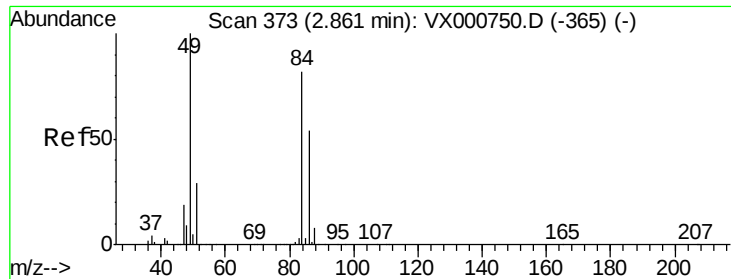
Tgt Ion: 43 Resp: 4198

Ion Ratio Lower Upper

43 100

58 24.1 24.6 37.0#

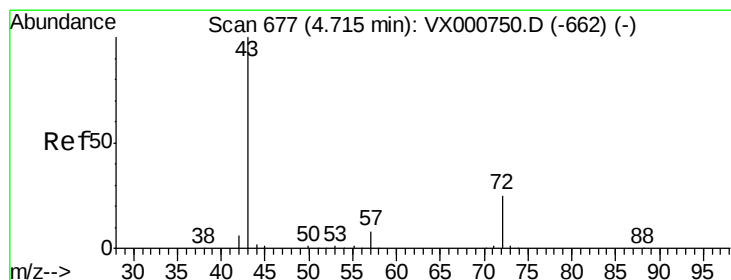
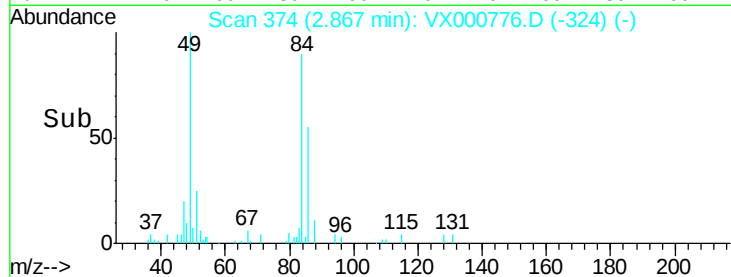
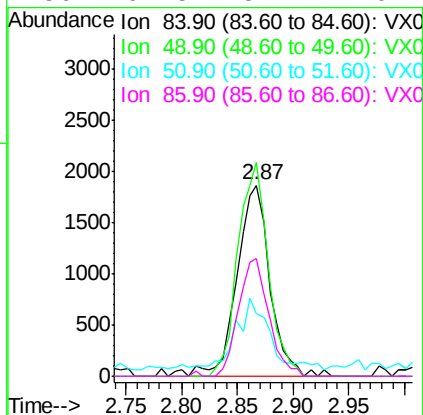
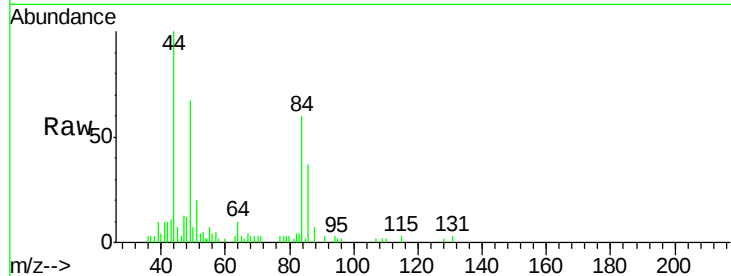




#20
Methvlene Chloride
Concen: 1.20 ug/l
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

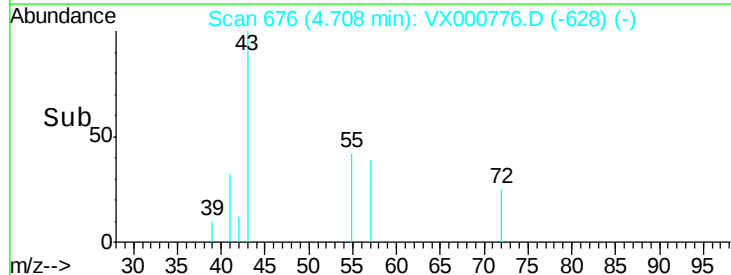
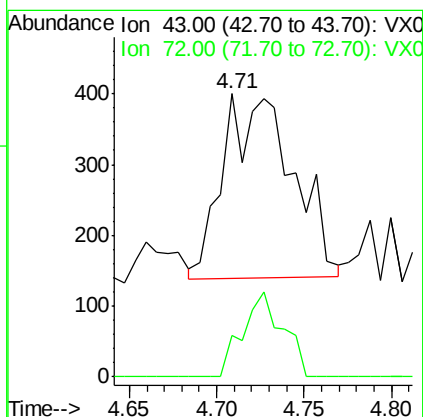
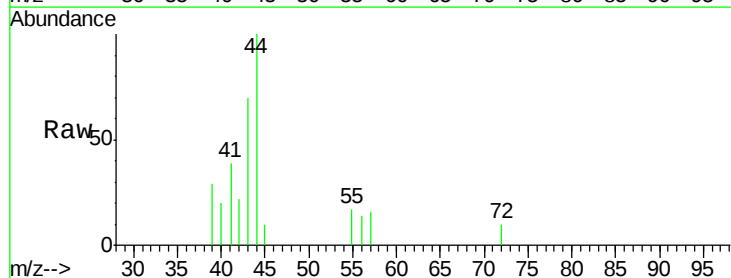
Instrument :
MSVOA_X
ClientSampled :

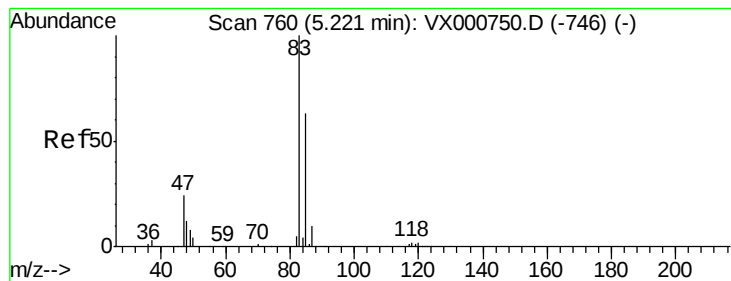
Tot Ion: 84 Resp: 3822
Ion Ratio Lower Upper
84 100
49 111.7 98.1 147.1
51 28.1 28.9 43.3#
86 61.5 52.7 79.1



#25
2-Butanone
Concen: 0.32 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

Tgt Ion: 43 Resp: 717
Ion Ratio Lower Upper
43 100
72 23.5 20.3 30.5





#30

Chloroform

Concen: 0.27 ug/l

RT: 5.23 min Scan# 762

Delta R.T. 0.01 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

Instrument :

MSVOA_X

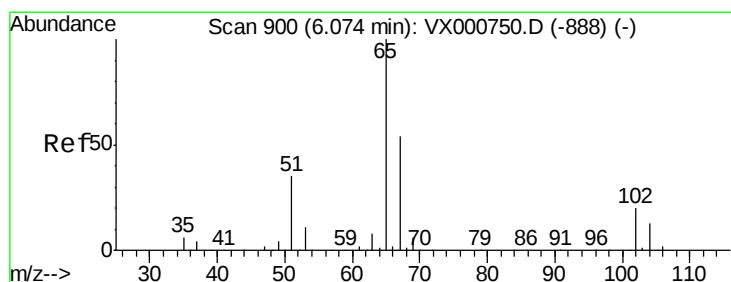
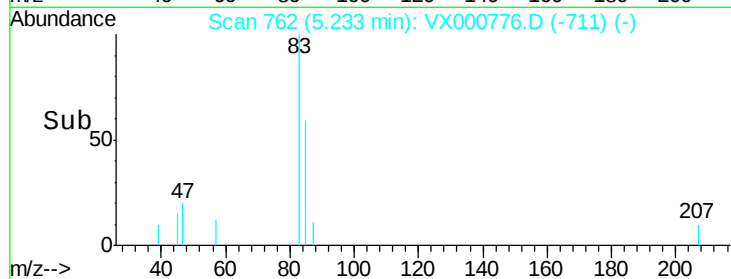
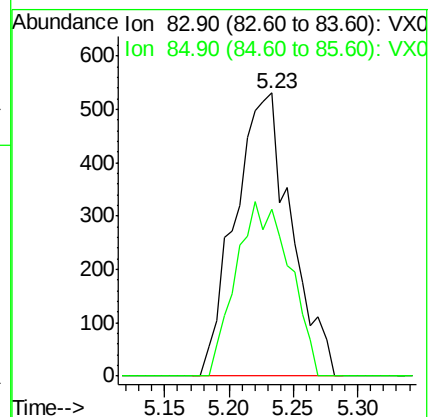
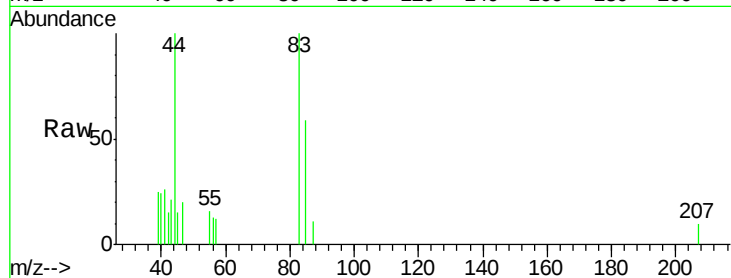
ClientSampleId :

Tot Ion: 83 Resp: 1601

Ion Ratio Lower Upper

83 100

85 59.1 50.7 76.1



#33

1,2-Dichloroethane-d4

Concen: 39.95 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000776.D

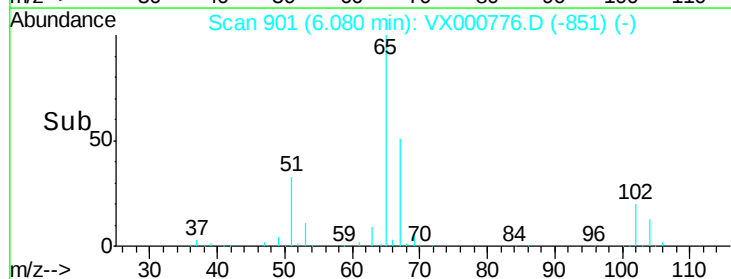
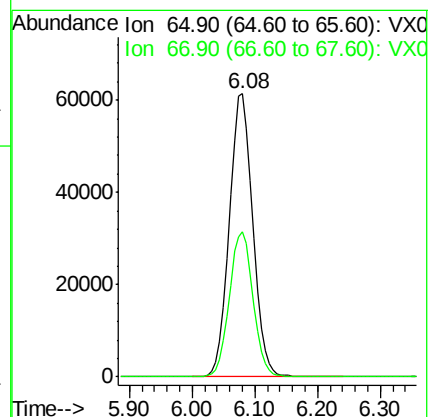
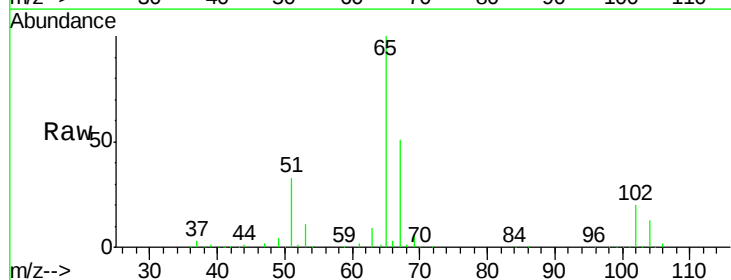
Acq: 11 Apr 2018 14:14

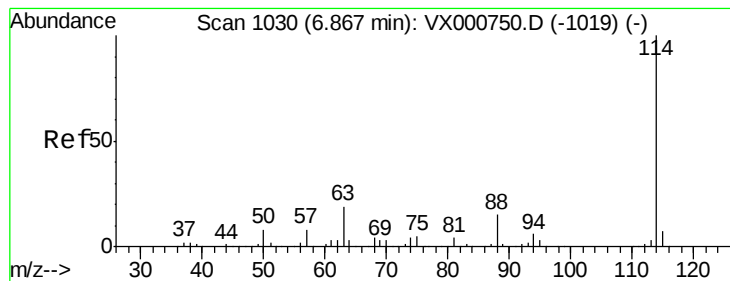
Tgt Ion: 65 Resp: 159031

Ion Ratio Lower Upper

65 100

67 51.8 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

Instrument :

MSVOA_X

ClientSampleId :

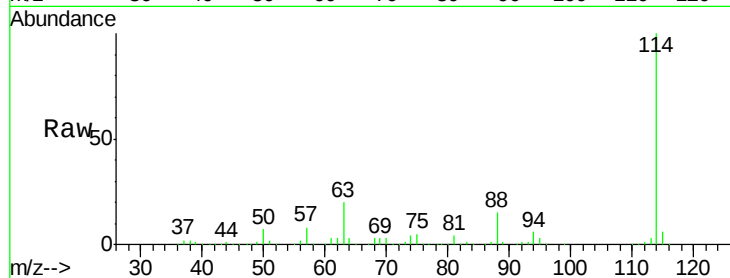
Tot Ion:114 Resp: 436295

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.4

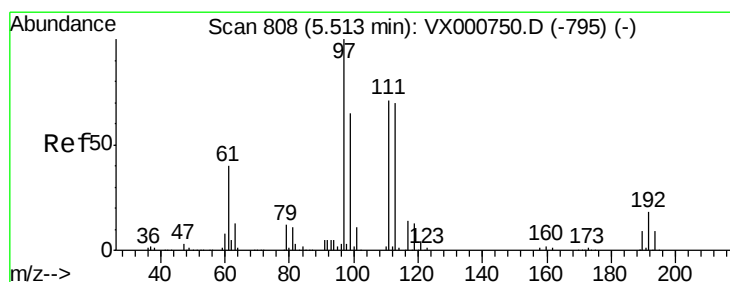
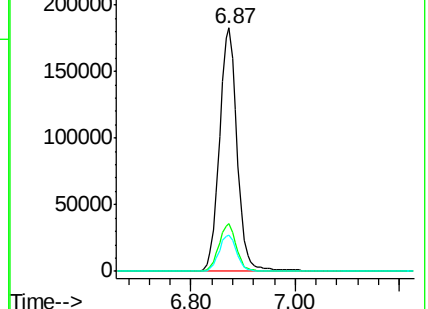
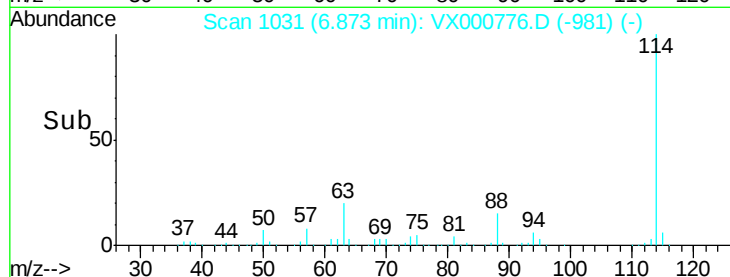
88 14.7 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 39.94 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

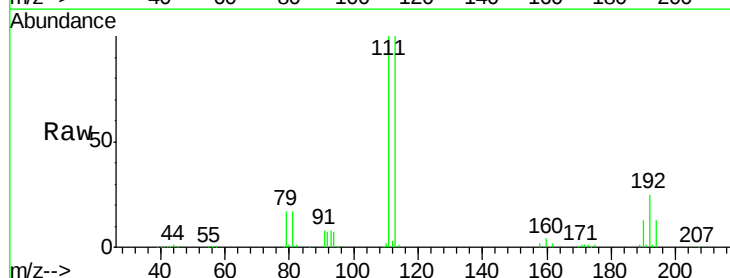
Tgt Ion:113 Resp: 134267

Ion Ratio Lower Upper

113 100

111 101.5 81.5 122.3

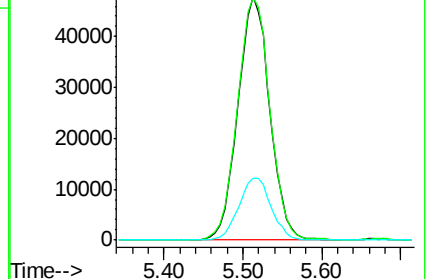
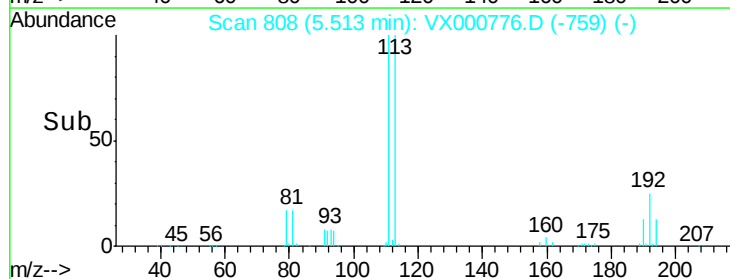
192 25.8 20.4 30.6

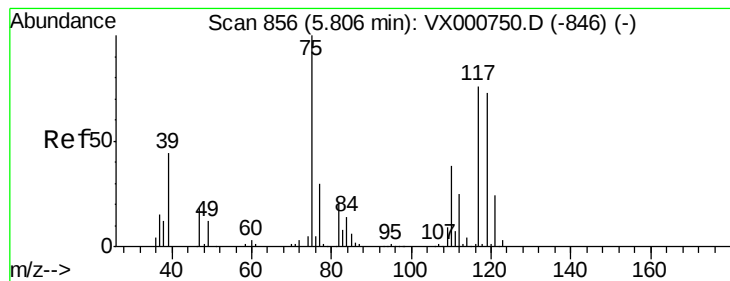


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.91 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

Instrument :
MSVOA_X
ClientSampled :

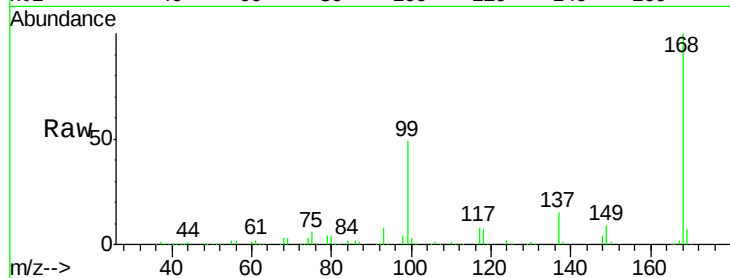
Tot Ion: 75 Resp: 18783

Ion Ratio Lower Upper

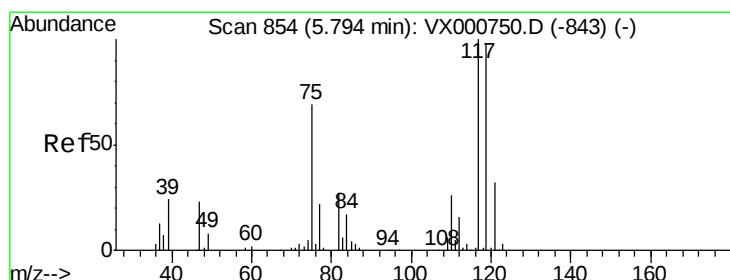
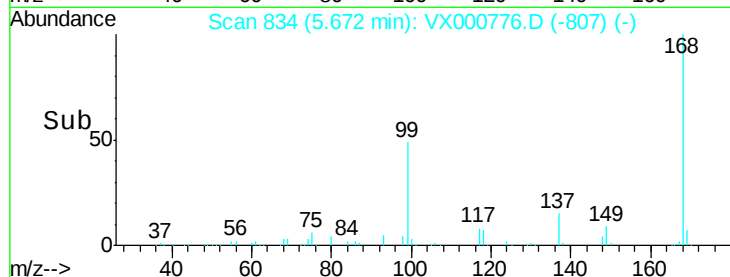
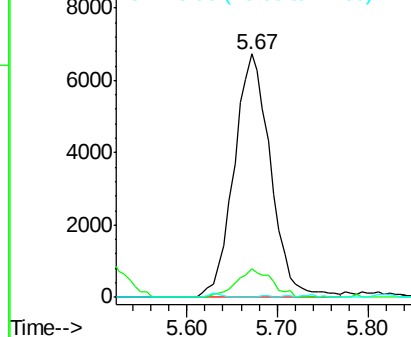
75 100

110 11.2 19.2 57.6#

77 0.2 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 4.83 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

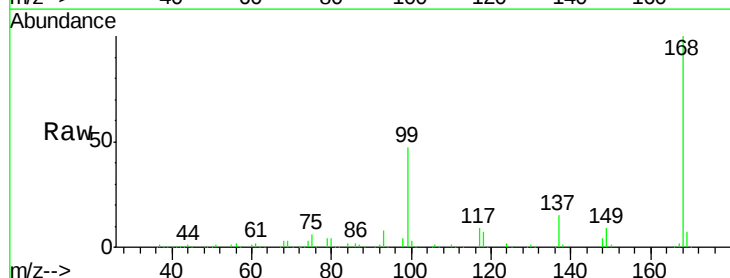
Tgt Ion:117 Resp: 25979

Ion Ratio Lower Upper

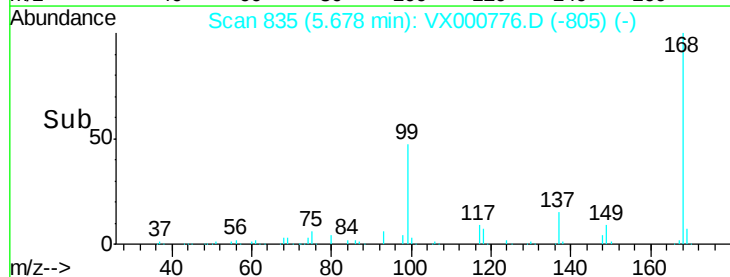
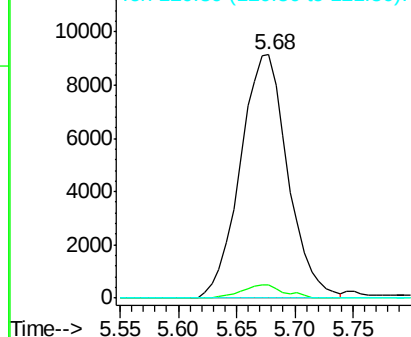
117 100

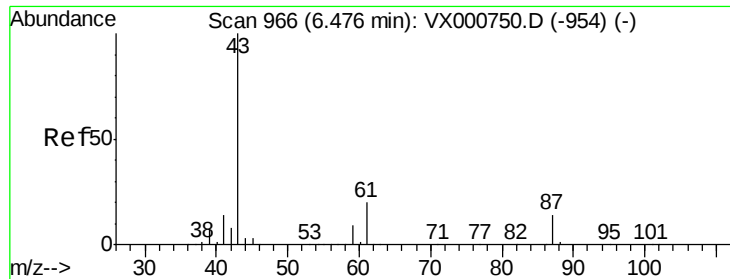
119 5.4 78.4 117.6#

121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



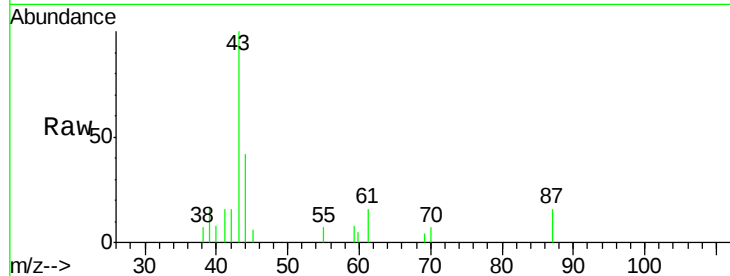


#43

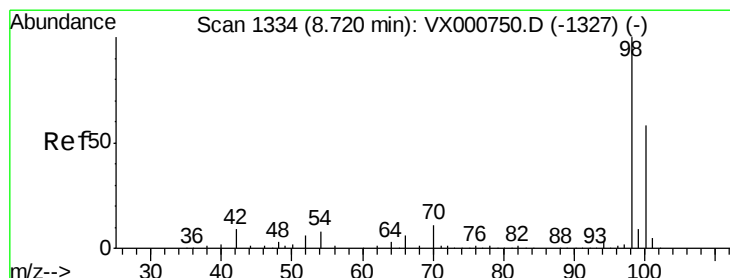
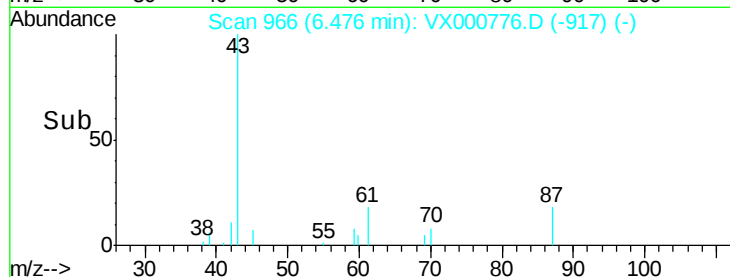
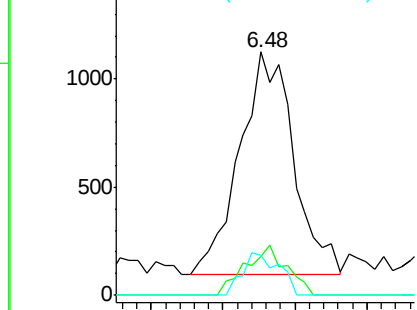
Isopropyl Acetate
 Concen: 0.33 ug/l
 RT: 6.48 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VX000776.D
 Acq: 11 Apr 2018 14:14

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 43 Resp: 2672
 Ion Ratio Lower Upper
 43 100
 61 17.2 15.6 23.4
 87 12.8 10.7 16.1



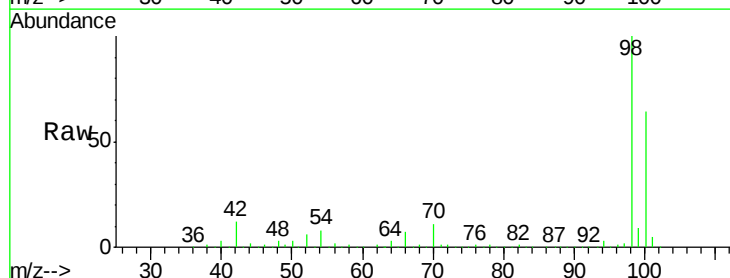
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



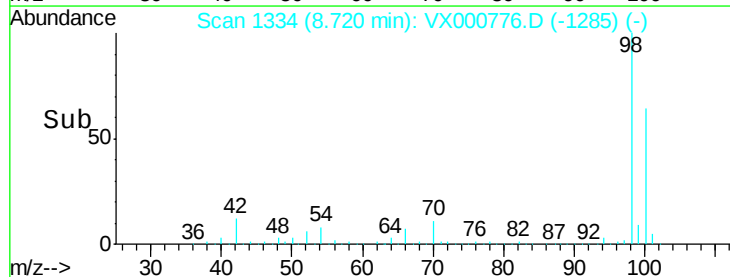
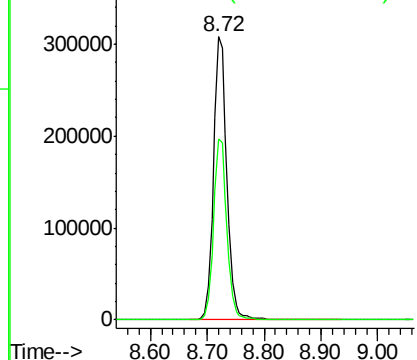
#50

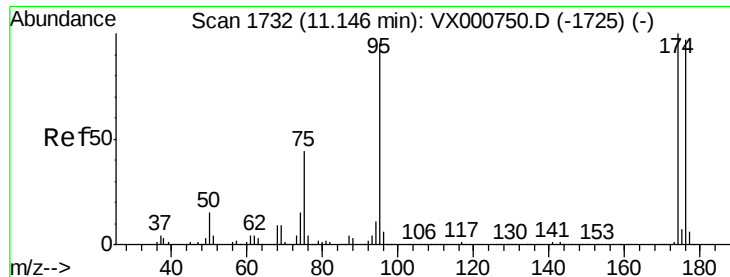
Toluene-d8
 Concen: 40.25 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VX000776.D
 Acq: 11 Apr 2018 14:14

Tgt Ion: 98 Resp: 503720
 Ion Ratio Lower Upper
 98 100
 100 64.2 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0

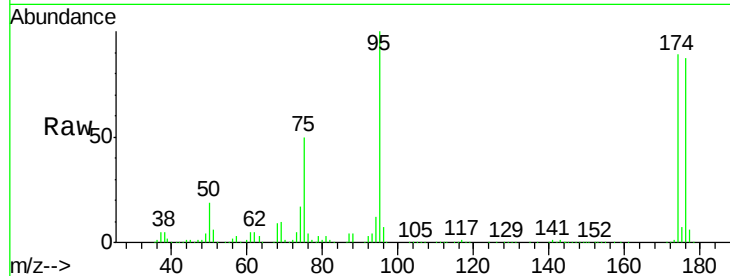




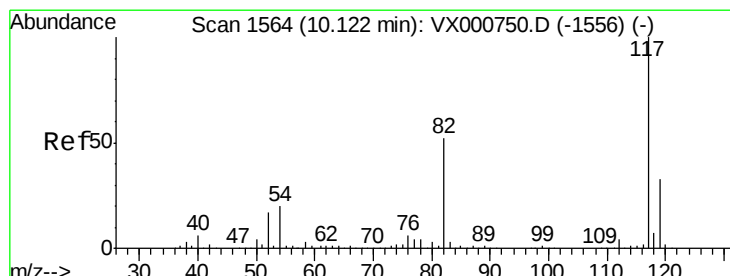
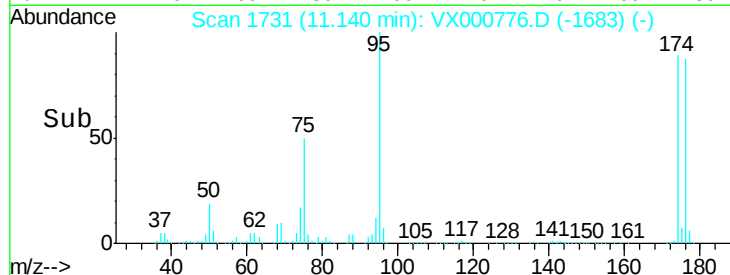
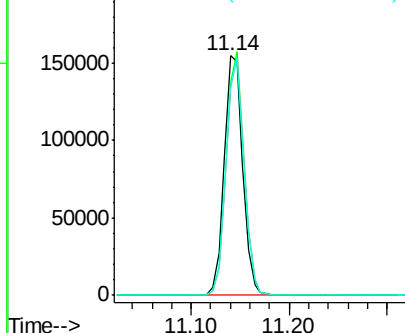
#62
4-Bromofluorobenzene
Concen: 39.11 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.01 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 202542
Ion Ratio Lower Upper
95 100
174 98.6 0.0 198.4
176 96.0 0.0 194.4

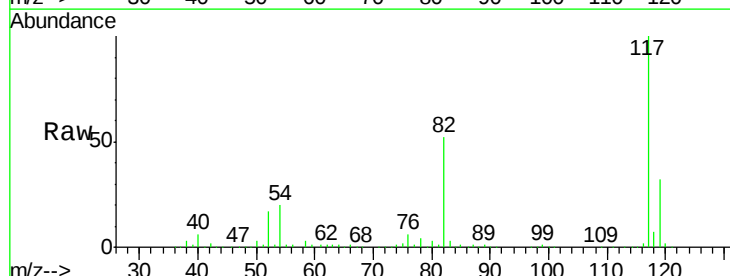


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

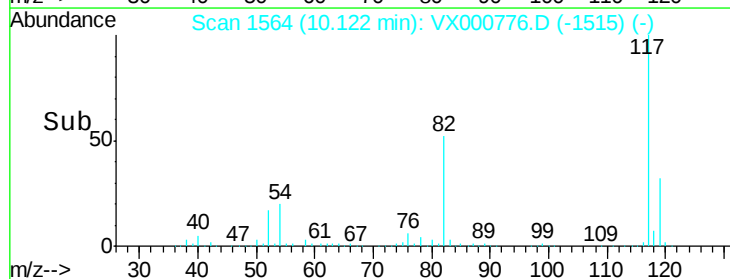
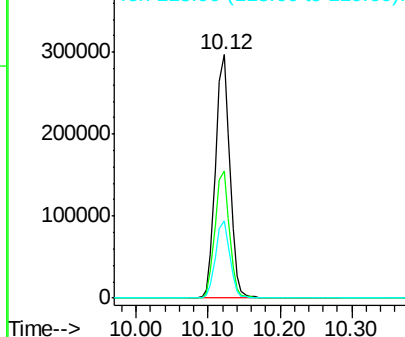


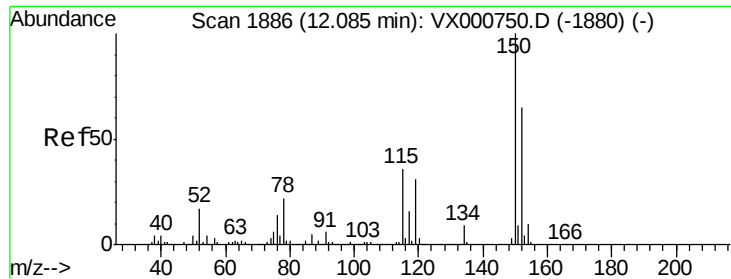
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

Tgt Ion: 117 Resp: 408472
Ion Ratio Lower Upper
117 100
82 52.1 41.9 62.9
119 31.9 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V



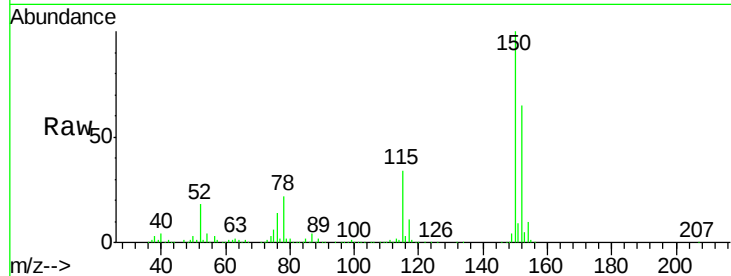


#72

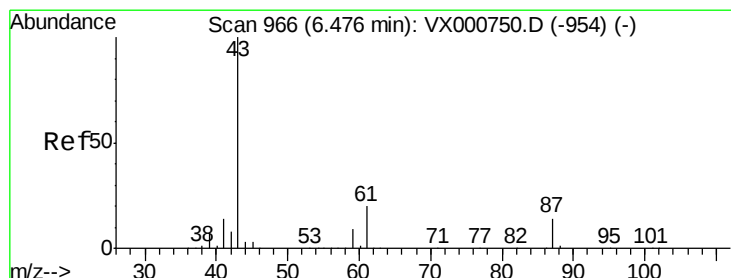
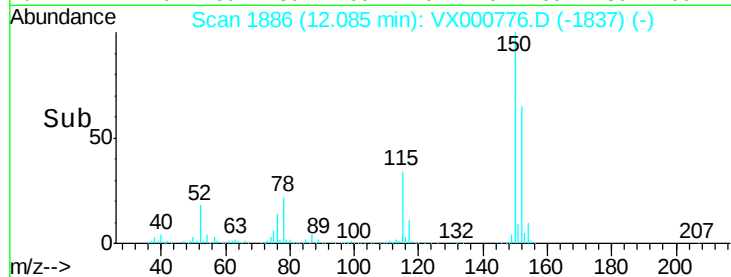
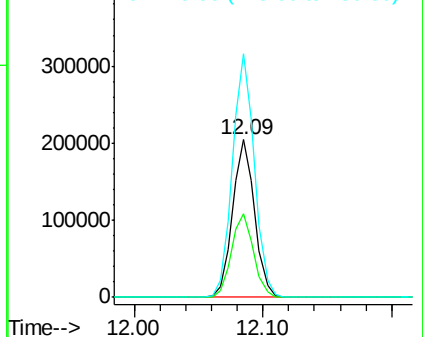
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.5	37.9	113.7
150	154.9	0.0	348.0



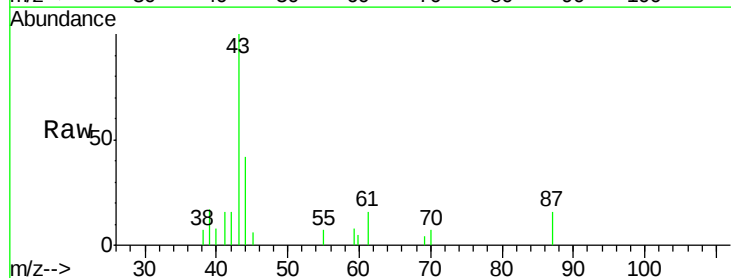
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



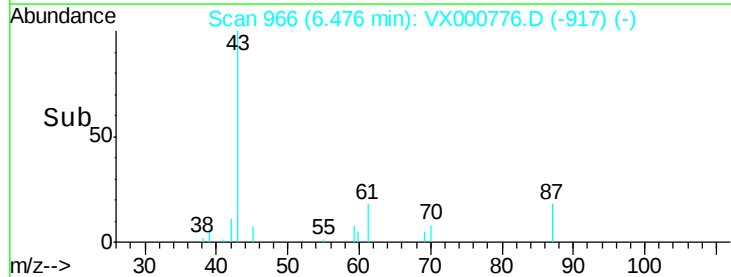
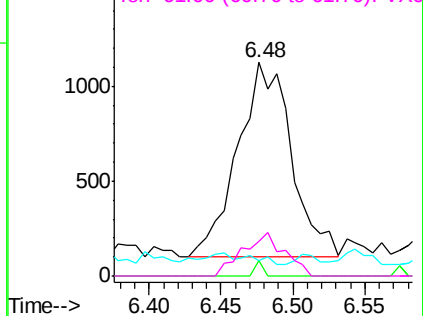
#74

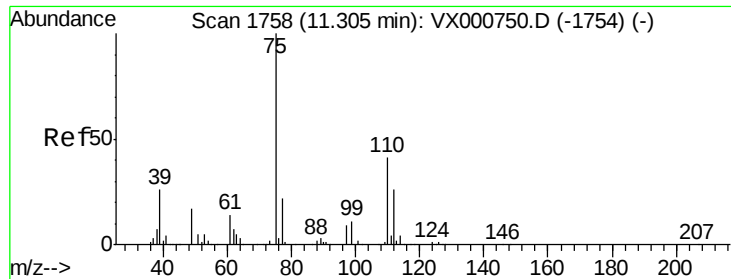
N-ethyl acetate
Concen: 0.38 ug/l
RT: 6.48 min Scan# 966
Delta R.T. -0.00 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

Tgt Ion	Ratio	Lower	Upper
43	100		
70	1.1	0.0	0.0#
55	0.0	0.0	0.0
61	17.2	15.6	23.4



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

Instrument :

MSVOA_X

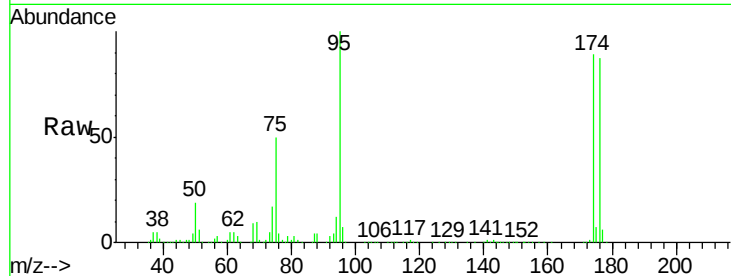
ClientSampleId :

Tot Ion: 75 Resp: 100800

Ion Ratio Lower Upper

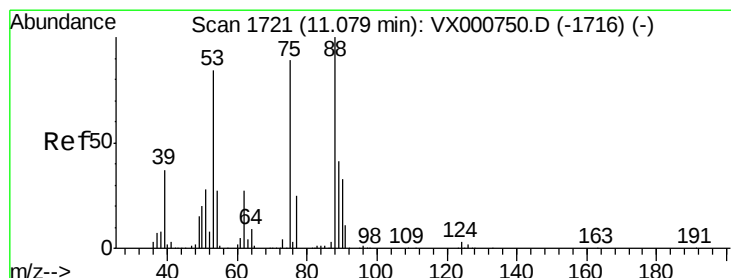
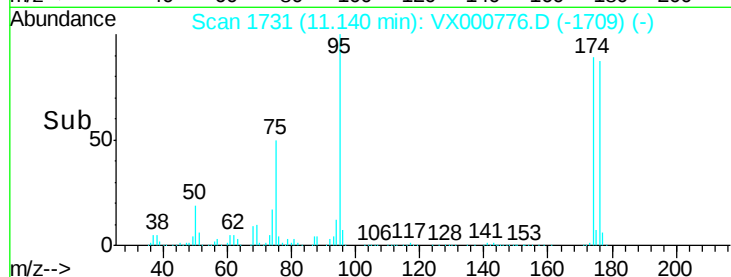
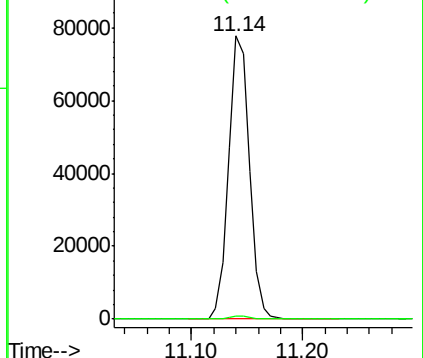
75 100

77 1.2 20.5 61.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000776.D

Acq: 11 Apr 2018 14:14

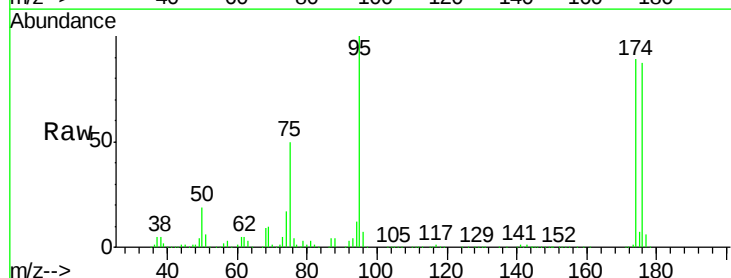
Tgt Ion: 75 Resp: 100800

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

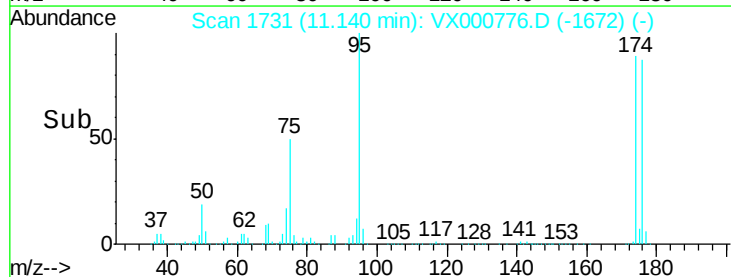
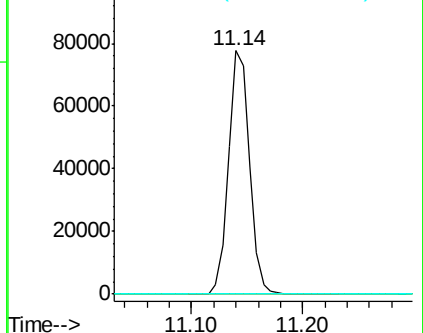
89 0.0 40.9 61.3#

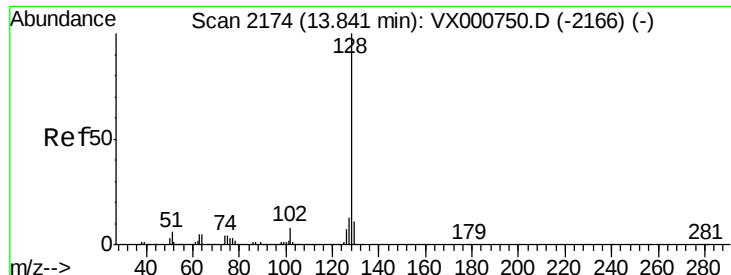


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

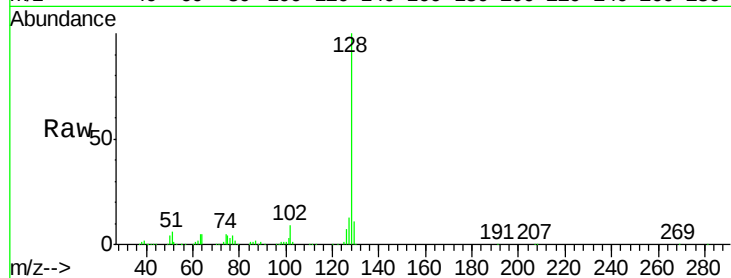




#95
Naphthalene
Concen: 5.09 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000776.D
Acq: 11 Apr 2018 14:14

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.8	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

